

## ABSTRACT

Systems and methods for monitoring and controlling water consumption in a water-based system are disclosed using one or more sensors for generating signals indicative of the operation thereof. One or more interface modules are provided as  
5 breaker circuits for receiving the generated signals, and a fluid control device is operable for limiting the water consumption. A motherboard receives the interface modules and provides communication therebetween for information processing. Signals from the various sensors are supplied to a controller, which provides signals to status indicators, and also operates to provide alarm signals via network  
10 interfaces to remote locations and to operate an alarm. In an alternate embodiment, a water monitoring system is designed to shut off the water supply to the water device and to shut off either the electrical supply or the gas supply to the heating unit of the water device in response to sensing a malfunction through one or more of a number of different sensed parameters. These parameters include a water leak  
15 detector located beneath the water device, a water level float sensor, a temperature sensor to sense excess temperature, and a pressure sensor located in line.

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